_	•	<u> </u>			4					
	TRANSMI		,	Application Number		09/830,502				
	FOR		Filing Date		October 29, 1999  Barany et al.					
C) g	(to be used for all correspond	al filing)	First Named Inventor							
103	• u·			Group Art Unit		1652				
14	•			Examiner Name		R. Hutson				
	Total Number of Pages in This S	Submission		Attorney Docket Number		19603/2615 (CRF D-2408)				
F			ENCLOSU	RES (check all that apply)						
	Fee Transmittal Form			nent Papers		After Allowance Communication to Group				
	Fee Attached		(for an A	(pplication)		Appeal Communication to Board of				
١r	Amendment / Reply		Drawing	, ,		Appeals and Interferences  Appeal Communication to Group				
-			_	ion and Power of Attorney		(Appeal Notice, Brief, Reply Brief)				
	☐ After Final			g-related Papers		Status Letter				
	Affidavits/declaration(s)		Petition	to Comment to a Direction of						
[	Extension of Time Request		Applicat			Request for Corrected Filing Receipt with Enclosures				
	Express Abandonment Reque			f Attorney, Revocation of Correspondence Address	×	A self-addressed, prepaid postcard for acknowledging receipt				
1	Information Disclosure Staten	nent ·	☐ Termina	l Disclaimer		Other Enclosure(s) (please identify below):				
L	Certified Copy of Priority Document(s)		Request	for Refund	×	_ ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `				
ſr	Response to Missing Parts/		CD, Number of CD(s)			Statement in Accordance with 37 C.F.R. § 1.821(g)				
-	Incomplete Application				×	Sequence Listing (16 pages)				
	A copy of the Notice to M	lissing Parts			×	Computer readable 3.5" diskette				
	under 37 CFR 1.52 or 1.5	3			×	containing sequences  Notification Regarding Loss of				
					_	Entitlement to Small Entity Status Pursuant to 37 CFR §§ 1.27(g)(2) and				
	ENED					1.28(c)				
<b>IEC</b>	SEINED  3 5003									
* 40	9 2000	Remarks	The Commissioner is	y authorized to charge any additional fees						
,2E,	- OF PETITIONS			nts to Deposit Account No. 14-1138 for the						
OVE	GE OF PETITIONS	CLONATU	DE OE ARRI	above identified docket nur		CENT				
	irm			ICANT, ATTORNEY, O	JK A	GENI +				
0		Michael L. Nixon Peat								
"	ngividual Italiic	Clinton Squ	uare, P.O. B							
			New York (585) 263-			•				
		Fax: (585)		<u> </u>		, _,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
S	ignature	Mu	Mul	J. Delle						
D	Date	Sac	eenber	2,2003	_					
	CEPT	CIEICATE C	OF MAII ING	G OR TRANSMISSIO	J [37	CFR 1 8(a)]				
	hereby certify that this corr				ر د ی ،	O. A. 1.0(u)]				
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	deposited with the class mail in an en Alexandria, VA 22	velope addre	es Postal Ser essed to: Ma	ail Stop Sequence, Com	miss	ioner for Patents, P. O. Box 1450,				
	transmitted by face	simile on the	date shown	below to the United St	ates ]	Patent and Trademark Office at				
	9/3/03	· ·		lelenoly	la.	Barus				
-	Date				1.Sis	gnature // //				
				<u> </u>	ien	ay L. Burry				
1				Тур	ed or	printed name				

# FET TRANSMITTAL FOR FY 2003 Key in fees are subject to annual revision.

nt claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

	inplete if Known		
Application Number	09/830,502	۸.	
Filing Date	October 29, 1999 ·	ME	· C~
First Named Inventor	Barany et al.	۸~	CIVER
Examiner Name	R. Hutson	OEP	
Art Unit	1652	OFFICE	9 2002
Attorney Docket No.	19603/2615 (CRF D-2408)	FICEOF	D/
			-11710NG

METHOD OF PAYMENT (check all that apply)				FE	E CALCU	LATION (contin	nued)	-7/0
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Deposit Account:	Large	Entity	Small	Entity				
Deposit 14 1120	Fee	Fee	Fee	Fee		Fee Descriptio	n	
Account 14-1138 Number	Code 1051	(\$) 130	2051	( <b>\$</b> ) 65	Surcharge -	- late filing fee or oa	ath I	
	1052	50	2052	25	-	late provisional fili	1	<del></del>
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Deposit Nivon Poshody, I. I. D.	1053	130	1053	130	Non-Englis	h specification		
Account Nixon Peabody LLP	1812	2,520	1812	2,520	For filing a	request for ex parte	reexamination	
	1804	920*	1804	920*	Requesting	publication of SIR p	prior to Examiner	
The Commissioner is authorized to: (check all that apply)	1805	1,840*	1805	1,840*	action	muhlication of CID a	a Aar Eugminan	
Charge fee(s) indicated below Credit any overpayments	1603	1,040	1003	1,040	action	publication of SIR a	aner Examiner	
Charge any additional fee(s)	1251	110	2251	55	Extension f	or reply within first	month	110
Charge fee(s) indicated below, except for the filing fee	1252	410	2252	205	Extension f	or reply within seco	nd month	
to the above-identified deposit account.	1253	930	2253	465	Extension f	or reply within third	l month	
HEE CALCULATION	1254	1,450	2254	725	Extension f	or reply within fourt	th month	
1. BASIC FILING FEE	1255	1,970	2255	985	Extension f	or reply within fifth	month	
Large Entity Small Entity	1401	320	2401	160	Notice of A	ppeal	ľ	
Fee Fee Fee Fee Description  Code (S) Code (S) Fee Paid	1402	320	2402	160	Filing a bri	ef in support of an a	ppeal	
Code (3) Code (3) Peerald	1403	280	2403	140	Request for	oral hearing		
1001 750 2001 375 Utility filing fee	1451	1,510	1451	1,510	<del>-</del>	institute a public use	proceeding	
1002 330 2002 165 Design filing fee	1452	110	2452	55	Petition to	revive – unavoidable	e	
	1453	1,300	2453	650	Petition to	revive – unintentiona	al l	
1003 520 2003 260 Plant filing fee	1501	1,300	2501	650		e fee (or reissue)		
1004 750 2004 375 Reissue filing fee	1502	470	2502	235	Design issu	·		
1005 160 2005 80 Provisional filing fee	1503	630	2503	315	Plant issue		Ì	
SUBTOTAL (1) (S) 0	1460	130	1460	130		the Commissioner		
SUBIOIAL(I) (\$) 0							17/	
DVID - CLAIM DEED DOD HIM HIM AND DEFECTIVE	1807	50	1807 1806	50 180	_	fee under 37 CFR 1.		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from	1806 8021	180 40	8021	40		of Information Disc each patent assignment		
Extra Claims below Fee Paid	0021	40	0021	40		ber of properties)	ent per property	
Total Claims	1809	750	2809	375	Filing a sub (37 CFR 1.	omission after final n	rejection	`   .
Independent -3** = X = 0	1810	750	2810	375		Iditional invention to	be examined	
Claims	1001	550	2001	256	(37 CFR 1.		·: (DOE)	
Multiple Dependent X = 0	1801	750	2801	375	Request for	Continued Examina	ation (RCE)	
Large Entity Small Entity	1802	900	1802	900	Request for	expedited examinat	tion of a design	
Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$)			1		application			205
l i i i i i i i i i i i i i i i i i i i	Other f	fee (specif	fy) Enti	ty Deficienc	y Payment		1	205
1201 84 2201 42 Independent claims in excess of 3	*Reduc	ced by Ba	sic Filin	g Fee Paid		SUBTOTAL (3)	(\$) 315	
1203 280 2203 140 Multiple dependent claim, if not paid								_
1204 84 2204 42 ** Reissue independent claims over		(	CERTIF	ICATE OF	MAILING C	OR TRANSMISSION	N [37 CFR 1.8(a)]	
original patent 1205 18 2205 9 ** Reissue claims in excess of 20 and	I hereb	y certify t	that this	corresponde	ence is being	;		
over original patent							date shown below w	
SUBTOTAL (2) (\$) 0						velope addressed to: ox 1450, Alexandria	Mail Stop Sequence v VA 22313-1450	,
**or number previously paid, if greater; For Reissues, see above							e United States Pate	nt and
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SUBMITTED BY						Complete /-f a	alicable)	
Michael I Goldman	Regist	ration No	0.	30,727		Complete (if app	585) 263-1304	
Name (Frint/Type)	_	ney/Agen	1)			Telephone		311
Signature / Culture 3. Dell	<u> </u>	_	>			Date {	Sopemba	- 2,203

Application No.: 10/830,502 E TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

X	1.	This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
	2.	This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
	3.	A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4.	A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5.	The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6.	The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
X Ap		Applicants sequence listing submission lists discriptor <223> as a probe or primer for protein sequences. Protein sequences cannot be "probe or primer".  icant Must Provide:
X	A	n initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
X		n initial_or <u>substitute</u> paper copy of the "Sequence Listing", as well as an amendment directing its entry to the specification.
X	a	statement that the content of the paper and computer readable copies are the same and, where pplicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 825(b) or 1.825(d).
Foi	. d	uestions regarding compliance to these requirements, please contact:
Foi	· F	Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For Patentin software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

Nixon Peabody LLP

JUL 2 8 2003



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Offic COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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SERIAL NUMBER	FILING DATE		FIRST NAMED	APPLICANT	ATTO	RNEY DOCKET NO.
-						
			1			
,					EXAMII	NER
				ART UNIT		PAPER NUMBER
		-				13
			J	DATE MAILED:		

PI ase find below a communication from the EXAMINER in charge of this application

Commissioner of Patents

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth: As indicated on the attached Notice to Comply, the discriptor <223> cannot list "probe or primer" for protein sequences. See the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

Any inquiry concerning this communication should be directed to Examiner Richard Hutson. Art Unit 1652, whose telephone number is (703) 308-0066.

Any inquiry of a general nature or relating to the status of this application should be directed to the Customer Service Center whose telephone number is (703) 308-0196.

APPLICANT IS GIVEN ONE MONTH FROM THE DATE OF THIS LETTER WITHIN WHICH TO COMPLY WITH THE SEQUENCE RULES, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136. In no case may an applicant extend the period for response beyond the six month statutory period. Applicant is requested to return a copy of the attached Notice to Comply with the response.

Richard Hutson, Ph.D. Primary Examiner Art Unit 1652 7/1/2003



## United States Patent and Trademark Offici

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/830,502	10/09/2001	Francis Barany	19603/2615	8225		
75	90 07/03/2003					
Michael L Go	ldman		EXAMINER			
Nixon Peabody Clinton Square	P O Box 31051		HUTSON, R	ICHARD G		
Rochester, NY	14603		ART UNIT	PAPER NUMBER		
		•	1652	-13		
			DATE MAILED: 07/03/2003	_		

Please find below and/or attached an Office communication concerning this application or proceeding.



DATE: 05/22/2003

TIME: 11:10:39



### RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,502A

Input Set: A:\C26151.app

Output Set: N:\CRF4\05222003\I830502A.raw

```
attgaggaga ggacgggcaa ggacccaagg gccctcacgg cctag
                                                                       2025
202 <210> SEQ ID NO: 3
203 <211> LENGTH: 20
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Description of Artificial Sequence: probe or
209
          primer
211 <220> FEATURE:
212 <221> NAME/KEY: tRNA
213 <222> LOCATION: (4)
214 <223> OTHER INFORMATION: w at position 4 can be T or A
216 <220> FEATURE:
217 <221> NAME/KEY: unsure
218 <222> LOCATION: (5)
219 <223> OTHER INFORMATION: s at position 5 can be C or G
221 <220> FEATURE:
222 <221> NAME/KEY: unsure
223 <222> LOCATION: (12)
224 <223> OTHER INFORMATION: s at position 12 can be C or G
226 <220> FEATURE:
227 <221> NAME/KEY: unsure
228 <222> LOCATION: (15)
229 <223> OTHER INFORMATION: r at position 15 can be G or A
231 <220> FEATURE:
232 <221> NAME/KEY: unsure
233 <222> LOCATION: (18)
234 <223> OTHER INFORMATION: y at position 18 can be T or C
236 <400> SEQUENCE: 3
                                                                       20
237 atcwscgacg csgartayga
240 <210> SEQ ID NO: 4
241 <211> LENGTH: 7
242 <212> TYPE: PRT
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Description of Artificial Sequence: probe or
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247
249 <400> SEQUENCE: 4
250 Ile Ser Asp Ala Glu Tyr Asp
251 1
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259 <220> FEATURE:
260 <223> OTHER INFORMATION: Description of Artificial Sequence: probe or
         primer
261
263 <220> FEATURE:
264 <221> NAME/KEY: unsure
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## RAW SEQUENCE LISTING DATE: 05/22/2003 PATENT APPLICATION: US/09/830,502A TIME: 11:10:39

Input Set : A:\C26151.app

Output Set: N:\CRF4\05222003\I830502A.raw

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266 <223> OTHER INFORMATION: s at position 3 can be C or G
268 <220> FEATURE:
269 <221> NAME/KEY: unsure
270 <222> LOCATION: (6)
271 <223> OTHER INFORMATION: s at position 6 can be C or G
273 <220> FEATURE:
274 <221> NAME/KEY: unsure
275 <222> LOCATION: (8)
276 <223> OTHER INFORMATION: k at position 8 can be G or T
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280 <222> LOCATION: (9)
281 <223> OTHER INFORMATION: s at position 9 can be G or C
283 <220> FEATURE:
284 <221> NAME/KEY: unsure
285 <222> LOCATION: (12)
286 <223> OTHER INFORMATION: s at position 12 can be G or C
288 <220> FEATURE:
289 <221> NAME/KEY: unsure
290 <222> LOCATION: (15)
291 <223> OTHER INFORMATION: y at position 15 can be C or T
293 <220> FEATURE:
294 <221> NAME/KEY: unsure
295 <222> LOCATION: (18)
296 <223> OTHER INFORMATION: r at position 18 can be A or G
298 <400> SEQUENCE: 5
                                                                        20
299 ccsqtscksc csacytgraa
302 <210> SEQ ID NO: 6
303 <211> LENGTH: 20
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Description of Artificial Sequence: probe or
309
          primer
311 <220> FEATURE:
312 <221> NAME/KEY: unsure
313 <222> LOCATION: (9)
314 <223> OTHER INFORMATION: \dot{v} at position 9 can be C, G, or A
316 <220> FEATURE:
317 <221> NAME/KEY: unsure
318 <222> LOCATION: (11)
319 <223> OTHER INFORMATION: r at position 11 can be A or G
321 <220> FEATURE:
322 <221> NAME/KEY: unsure
323 <222> LOCATION: (12)
324 <223> OTHER INFORMATION: y at position 12 can be T or C
326 <220> FEATURE:
```

327 <221> NAME/KEY: unsure

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/22/2003 PATENT APPLICATION: US/09/830,502A TIME: 11:10:40

Input Set : A:\C26151.app

Output Set: N:\CRF4\05222003\1830502A.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
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Seq#:15; Xaa Pos. 37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55
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Seq#:15; Xaa Pos. 171,172
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Seq#:18; Xaa Pos. 94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109
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Seq#:18; Xaa Pos. 143,144,145,146,147,148,149,150,151,152,153,154,155,156
Seq#:18; Xaa Pos. 157,158,159,160,161,162,163,164,165,166,167,168,169,170
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```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/22/2003 PATENT APPLICATION: US/09/830,502A TIME: 11:10:40

Input Set : A:\C26151.app

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Seq#:19; Xaa Pos. 171,172
Seq#:20; Xaa Pos. 18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36

VERIFICATION SUMMARY

DATE: 05/22/2003

PATENT APPLICATION: US/09/830,502A

TIME: 11:10:40

Input Set : A:\C26151.app

Output Set: N:\CRF4\05222003\1830502A.raw

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450 2 01 2

STATISTICS SUMMARY

PATENT APPLICATION: US/10/085,418E

DATE: 05/22/2003 TIME: 14:24:44

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Application Serial Number: US/10/085,418E

Alpha or Numeric or Xml: Alpha

Application Class:

Application File Date: 02-28-2002

Art Unit: OIPE

Software Application: PatentIN1.0

Total Number of Sequences: 3

Total Nucleotides: 3729

Total Amino Acids: 0

Number of Errors: 0

Number of Warnings: 0 Number of Corrections: 2

#### MESSAGE SUMMARY

220 C: 2 (Keyword misspelled or invalid format)

Does Not Comply
Corrected Diskette Needed



1600

RAW SEQUENCE LISTING DATE: 05/22/2003 PATENT APPLICATION: US/09/830,502A TIME: 11:10:39

Input Set : A:\C26151.app

Output Set: N:\CRF4\05222003\1830502A.raw

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        Cao, Weiguo
        Tong, Jie
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9 <130> FILE REFERENCE: 19603/2615
11 <140> CURRENT APPLICATION NUMBER: 09/830,502A
12 <141> CURRENT FILING DATE: 1999-10-29
14 <150> PRIOR APPLICATION NUMBER: 60/106,461
15 <151> PRIOR FILING DATE: 1998-10-30
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,502A TIME: 11:10:39

DATE: 05/22/2003

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82	275	. 7	7			T 011	Trn	Λ κα	Glu		G1 v	Tur	Thr
84 Val Val	гуѕ ге	u Asp			АІА	ьeu	тъ		300	пец	CLY	ı yı	
85 290		_		295	-	77-	m			Dwo	71-	C1	C1.,
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-						-				_			
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RAW SEQUENCE LISTING DATE: 05/22/2003 PATENT APPLICATION: US/09/830,502A TIME: 11:10:39

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Output Set: N:\CRF4\05222003\1830502A.raw

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